

Attorney's Docket No.: Intel 10559-229001/P8794

### Listing of Claims

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Previously Presented) Apparatus comprising:

a first component configured to forward data based on a lookup in a routing table and to replace a destination address in an Ethernet header of the data to identify a second component;

the second component configured to receive the data; and

an intermediate component bridging the first component and the second component to forward the data based on the replaced destination address.

2. (Previously Presented) The apparatus of claim 1 comprising additional intermediate components bridging the first component and the second component to forward the data.

3. (Original) The apparatus of claim 1 wherein the first component is configured to receive a packet from a first host and the second component is configured to deliver the packet to a second host.

4. (Original) The apparatus of claim 3 wherein the routing table used to set a path from the first component to the

Attorney's Docket No.: Intel 10559-229001/P8794

second component is computed by determining a port that leads to the second host.

5. (Original) The apparatus of claim 3 wherein the data comprises a request for an address to which to send the packet; the first component is configured to forward the request; the intermediate component in the path is configured to forward the request to the second component without looking up the routing table; and the second component is configured to receive the request and to send its address back to the first component.

6. (Original) The apparatus of claim 1 wherein the data is part of a packet, and the first component is configured to encapsulate the packet with the address of the second component and to forward the encapsulated packet through the intermediate component to the second component.

7. (Previously Presented) The apparatus of claim 6 wherein the intermediate component acts as a transparent bridge to forward the request and the packet.

8. (Original) The apparatus of claim 6 wherein the second component is configured to route the packet received through the intermediate component to a second host.

Attorney's Docket No.: Intel 10559-229001/P8794

9. (Original) The apparatus of claim 1 wherein the first component, the intermediate component, and the second component are connected through a network medium.

10. (Original) The apparatus of claim 9 wherein the network medium comprises Ethernet.

11. (Original) The apparatus of claim 1 wherein the routing system is configured to support address resolution protocol.

12. (Previously Presented) A method comprising:  
performing a lookup in a routing table to determine a path to send data from a sender to a receiver;

replacing a destination address in an Ethernet header of the data to identify a second component connected to the receiver; and

forwarding the data, based on the replaced destination address, through an intermediate component between a first component connected to the sender and the second component.

13. (Original) The method of claim 12 further comprising:  
forwarding the data without looking up the routing table through additional intermediate components between the first component and the second component.

Attorney's Docket No.: Intel 10559-229001/P8794

14. (Original) The method of claim 12 further comprising:  
sending a packet from the sender to the first component;  
and

routing the data comprising a request for an address of the  
second component from the first component.

15. (Original) The method of claim 14 further comprising:  
forwarding the request through the intermediate components;  
and

sending a reply from the second component to the  
intermediate component; and

forwarding the reply from the intermediate component  
without looking up the routing table to the first component.

16. (Original) The method of claim 12 further comprising:  
encapsulating the data comprising a packet with address  
information of the second component; and

forwarding the encapsulated packet to the second component  
through the intermediate component without looking up the  
routing table.

17. (Original) The method of claim 16 further comprising:  
routing the packet from the second component to the  
receiver.

Attorney's Docket No.: Intel 10559 229001/P8794

18. (Currently Amended) An article comprising a one or more machine-readable medium media that ~~stores~~ store machine-executable instructions for causing ~~a machine~~ one or more machines to:

perform a look up in a routing table to determine a path to send data from a sender to a receiver;

replace a destination address in an Ethernet header of the data to identify a second component connected to the receiver; and

forward the data, based on the replaced destination address, through an intermediate component between a first component connected to the sender and the second component.

19. (Currently Amended) The article of claim 18 further causing the ~~machine~~ one or more machines to:

forward the data, without looking up the routing table, through additional intermediate components between the first component and the second component.

20. (Currently Amended) The article of claim 18 further causing the ~~machine~~ one or more machines to:

send a packet from the sender to the first component; and

route the data comprising a request for an address of the second component from the first component.

Attorney's Docket No.: Intel 10559-229001/P8791

21. (Currently Amended) The article of claim 20 further causing the machine one or more machines to:

forward the request through the intermediate components;  
and

send a reply from the second component to the intermediate component; and

forward the reply from the intermediate component, without looking up the routing table, to the first component.

22. (Currently Amended) The article of claim 18 further causing the machine one or more machines to:

encapsulate the data comprising a packet with address information of the second component; and

forward the encapsulated packet to the second component through the intermediate component without looking up the routing table.

23. (Currently Amended) The article of claim 22 further causing the machine one or more machines to:

route the packet from the second component to the receiver.

24. (Previously Presented) The apparatus of claim 1 wherein the apparatus comprises a modularized network element that includes the first component, the second component, and the intermediate component, the position of the components in the network element changing based on a path of the data.

Attorney's Docket No.: Intel 10559-229001/P8794

25. (Previously Presented) The apparatus of claim 24, wherein:

the first component comprises an ingress component of the modularized network element; and

the second component comprises an egress component of the modularized network element.

26. (Previously Presented) The method of claim 12 wherein performing the lookup to determine the path comprises performing the lookup to determine the path in a modularized network element that includes the first component, the second component, and the intermediate component, the position of the components in the network element changing based on the path.

27. (Previously Presented) The method of claim 26, wherein:

the first component comprises an ingress component of the modularized network element; and

the second component comprises an egress component of the modularized network element.

28. (Currently Amended) The article of claim 18 further causing the machine one or more machines to:

perform the look up to determine the path in a modularized network element that includes the first component, the second

Attorney's Docket No.: Intel 10559-229001/P8794

component, and the intermediate component, the position of the components in the network element changing based on the path.

29. (Previously Presented) The article of claim 28, wherein:

the first component comprises a ingress component of the modularized network element; and

the second component comprises a egress component of the modularized network element.